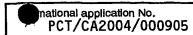
## INTERNATIONAL SEARCH REPORT

Interational Application No PC17 CA2004/000905

			17 CA20047 000303		
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H04R5/033				
According to	o International Patent Classification (IPC) or to both national classifi	cation and IPC			
	SEARCHED				
Minimum do IPC 7	ocumentation searched (classification system followed by classification has H04R	tion symbols)			
	tion searched other than minimum documentation to the extent that				
Electronic d	ata base consulted during the international search (name of data b	ase and, where practical, searc	ch terms used)		
EPO-In	ternal, WPI Data, INSPEC, PAJ, IBM-	TDB			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	Relevant to claim No.			
A	US 6 062 337 A (ZINSERLING ET AL 16 May 2000 (2000-05-16) column 4, line 30 - column 6, li figures 1-6	1			
А	US 2002/181727 A1 (SHEN YAO-SHEN 5 December 2002 (2002-12-05) page 1, right-hand column, paragpage 2, left-hand column, paragr figures 1-3	1			
A	US 5 684 879 A (VERDICK ET AL) 4 November 1997 (1997-11-04) column 3, line 30 - column 4, li figures 1-3	1			
Furt	her documents are listed in the continuation of box C.	X Patent family memb	ers are listed in annex.		
° Special ca	ategories of cited documents :				
consid	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	or priority date and not in cited to understand the invention	l after the International filing date n conflict with the application but principle or theory underlying the		
filing of the filling	date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified)	cannot be considered n- involve an inventive step "Y" document of particular re	elevance; the claimed invention ovel or cannot be considered to p when the document is taken atone elevance; the claimed invention Involve an inventive step when the		
other "P" docum	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling date but han the priority date claimed	document is combined to ments, such combination in the art.	with one or more other such docu- n being obvious to a person skilled		
	actual completion of the international search	*&* document member of the  Date of mailing of the interest.			
2	8 February 2005	04/03/2005	•		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer			
	Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016	Meiser, J	Meiser, J		

## INTERNATIONAL SEARCH REPORT



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  .
Claims Nos.:  1 (in part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1 (in part)

Present independent claim 1 attempts to define headphones for providing surround sound effects by general reference to the description and figures, which is not in accordance with Rule 6.2 (a) PCT and PCT Guidelines, Chapter 5, 5.10. However, the description and figures relate to a large number of features of the headphones, some of which features are optional and some are not. Thus, the present claim contains so many options that lack of clarity arises within the meaning of Article 6 PCT to such an extent as to render a meaningful search of the claim impossible. Consequently, the search has been carried out for claim 1 as far as it relates to those parts of the application which are presented as being essential to the headphones, viz.

Headphones for 3D sound comprising the following features:

- at least two speakers (cf. figures 1-6);
- at least one tube connecting with a first end thereof one of said speakers and connecting with the second end thereof an outlet positioned adjacent to a users ear (cf. page 7, lines 13-14 and lines 25-28; page 9, lines 1-2);
- the left and right tube sections are of the same length (cf. page 9, lines 2-3);
- the at least two speakers are each housed in a vented acoustically sealed chamber (cf. page 10, lines 17-19 and lines 26-29);
- at least two speakers are located at a distance d along the front/back tube from the centerline of the head (cf. page 8, lines 20-28 and page 9, lines 28-31), where
- d = a (theta + sin(theta))/2
- a = radius of the head and

theta = the angle (in radians) of the source that the speaker represents.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## INTERNATIONAL SEARCH REPORT

iformation on patent family members

Interceptional Application No PC17CA2004/000905

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6062337	A	16-05-2000	DE	19616870 A1	30-10-1997
			ΑT	191308 T	15-04-2000
			ΑÜ	709695 B2	02-09-1999
			AU	1723497 A	19-11-1997
			DE	19745574 A1	22-04-1999
			DE	59701365 D1	04-05-2000
			WO	9741709 A1	06-11-1997
			ΕP	0895702 A1	10-02-1999
			ES	2146081 T3	16-07-2000
			JP	2000509226 T	18-07-2000
			DK	8 <b>9</b> 5 <b>7</b> 02 T3	17-07-2000
US 2002181727	A1	05-12-2002	 TW	522748 B	01-03-2003
			JP	2002369283 A	20-12-2002
US 5684879		04-11-1997	NONE		